

Title (en)  
WIDE SPEED RANGE CONCRETE MONITORING CALIBRATION

Title (de)  
KALIBRIERUNG DER BETONÜBERWACHUNG MIT BREITEM GESCHWINDIGKEITSBEREICH

Title (fr)  
ÉTALONNAGE DE CONTRÔLE DE BÉTON À LARGE PLAGE DE VITESSE

Publication  
**EP 3386701 B1 20230322 (EN)**

Application  
**EP 15910337 A 20151207**

Priority  
US 2015064257 W 20151207

Abstract (en)  
[origin: WO2017099711A1] A method and system for concrete monitoring calibration using truck-mounted mixer drum jump speed data selectively assimilated from previous deliveries. The method involves measuring energy at a first drum speed and a second drum speed. Slump is calculated using low speed energy/speed/slump curve data, or pre-stored equation wherein slump is derived as a function of slope of the line. The energy, speed, slump relationship in the provided concrete is compared to at least two pre-stored data curves across drum speed ranges of 15 0.5 RPM - 6 RPM and 6 RPM - 20 RPM, to ascertain whether the provided concrete matches any of the stored curve data; either activating the monitoring system for all drum speed ranges where a match is confirmed or allowing the monitoring system to calculate slump only at low drum speeds.

IPC 8 full level  
**B28C 7/02** (2006.01); **B28C 5/42** (2006.01)

CPC (source: EP KR US)  
**B28C 5/422** (2013.01 - EP KR US); **B28C 5/4268** (2013.01 - KR); **B28C 7/026** (2013.01 - EP KR US); **B01F 2101/28** (2022.01 - US); **G01N 33/383** (2013.01 - EP); **G01N 2011/0053** (2013.01 - EP KR US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2017099711 A1 20170615**; AU 2015417041 A1 20180726; AU 2015417041 B2 20220317; BR 112018011472 A2 20181204; BR 112018011472 B1 20220503; CA 3007480 A1 20170615; CA 3007480 C 20230328; CN 109070385 A 20181221; CN 109070385 B 20200717; CO 2018006656 A2 20180710; EP 3386701 A1 20181017; EP 3386701 A4 20190731; EP 3386701 B1 20230322; EP 4198509 A1 20230621; ES 2942261 T3 20230531; JP 2018538173 A 20181227; JP 6650038 B2 20200219; KR 102458198 B1 20221024; KR 20180117593 A 20181029; MX 2018006869 A 20180906; SG 11201804784R A 20180730; US 11667054 B2 20230606; US 2020262105 A1 20200820; US 2023256653 A1 20230817

DOCDB simple family (application)  
**US 2015064257 W 20151207**; AU 2015417041 A 20151207; BR 112018011472 A 20151207; CA 3007480 A 20151207; CN 201580085793 A 20151207; CO 2018006656 A 20180627; EP 15910337 A 20151207; EP 23155311 A 20151207; ES 15910337 T 20151207; JP 2018529609 A 20151207; KR 20187017633 A 20151207; MX 2018006869 A 20151207; SG 11201804784R A 20151207; US 201515781645 A 20151207; US 202318140304 A 20230427